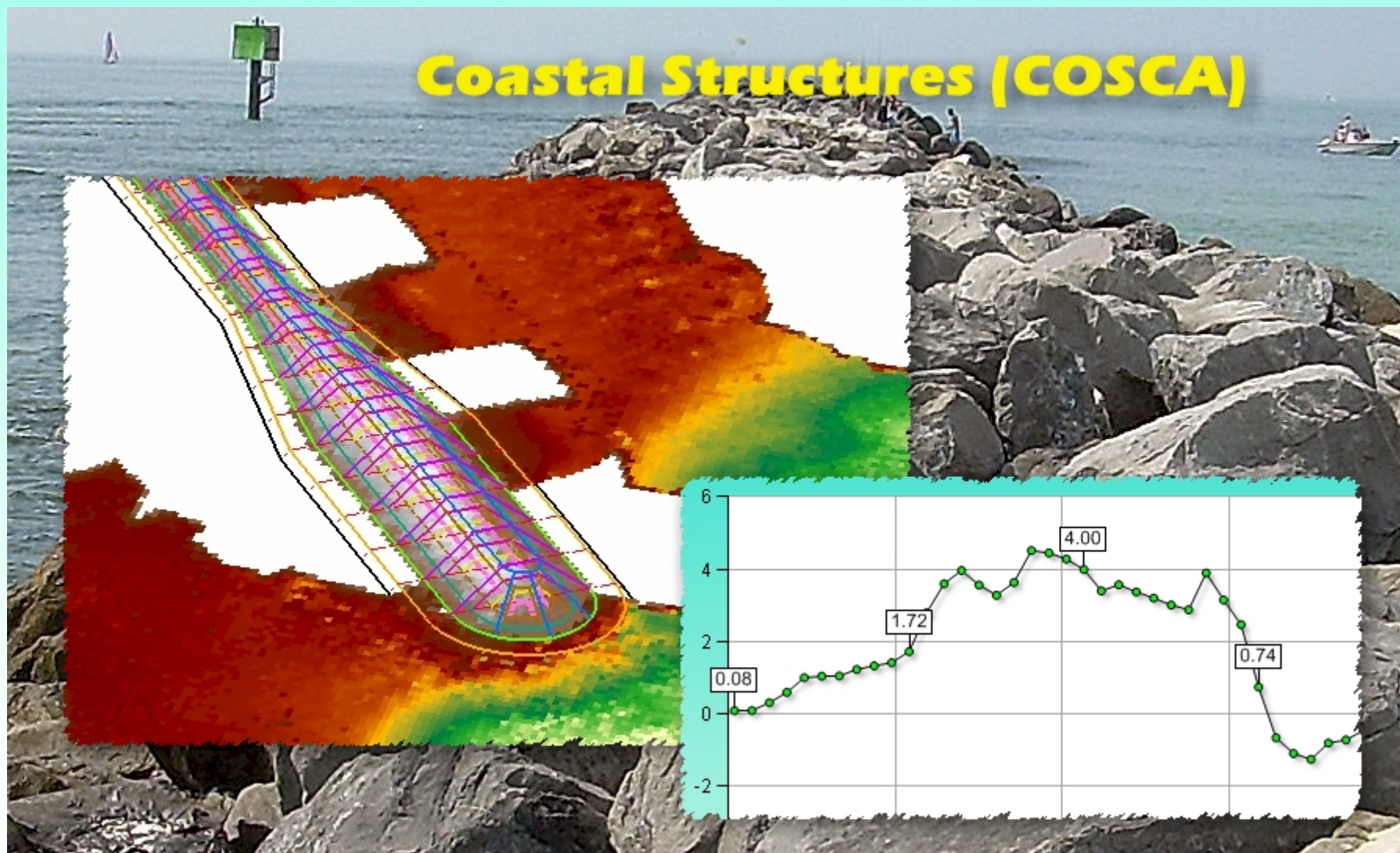


## Coastal Structures (COSCA)



Spatial Data Branch ■ Mobile District ■ <http://gis.sam.usace.army.mil>

# Coastal Structures

# COSCA Software

**Structure Details**

[-] [ ] [X]

Active Structure: Perdido Pass Channel (west jetty)

☒ Keep form on top ☒ Auto park form when loading layers

Inspection Records Coastal Structure Project Viewer Condition Reports

Inspection I...	Date	Reach	From Station	To Station	Inspection Team
52	3/17/2008	Reach A	10+20	20+50	CESAM-OPJ
53	3/19/2008	Reach B	00001+10	00004+20	Team A
55	4/28/2008	Lower Channel	00+00	10+00	Red Team

General Ratings Comments and Actions Related Files

Project: Perdido Pass Channel Inspection Team: Team A

Structure: Perdido Pass Channel (west jetty)

Reach: Reach B Tide Level: 3

Station From: 00001+10 Station To: 00004+20

Time Begin: 09:00 Time End: 10:20

Date: 3/19/2008 Wave Height: 3

Inspection Type: boating Wave Action: non-overtopping Weather: fair

Name	Office	Phone
Mark Penton	OPJ	2516944...

Structure Details Form -View 1

# Coastal Structures

# COSCA Software

**Structure Details**

[-] [ ] [X]

Active Structure: Perdido Pass Channel (west jetty)

☒ Keep form on top ☒ Auto park form when loading layers

Inspection Records Coastal Structure Project Viewer Condition Reports

Inspection I...	Date	Reach	From Station	To Station	Inspection Team
52	3/17/2008	Reach A	10+20	20+50	CESAM-OPJ
53	3/19/2008	Reach B	00001+10	00004+20	Team A
55	4/28/2008	Lower Channel	00+00	10+00	Red Team

General Ratings Comments and Actions Related Files

Rating Categories	Rating 1-6	Damage Length	Comment Numbers	Jetty Component
breach	Moderate	4	1	Crest/Cap
core exposure	Moderate	7	1	Crest/Cap
armor loss	Insignificant	0		Crest/Cap
armor contact loss	Insignificant	0		Crest/Cap
armor quality defect	Insignificant	0		Crest/Cap
core exposure	Insignificant	0		Seaside/Head
armor loss	Moderate	7		Seaside/Head
armor contact loss	Insignificant	0		Seaside/Head
armor quality defect	Insignificant	4		Seaside/Head
core exposure	Insignificant	0		Channel/Harbor Side
armor loss	Insignificant	0		Channel/Harbor Side

Structure Details Form -View 2

# Coastal Structures

# COSCA Software

**Structure Details**

[-] [ ] [X]

🗨️ ✓ ✗ 🌐 📊 🌍 🖼️

**Active Structure:** Perdido Pass Channel (west jetty)

☒ Keep form on top   ☒ Auto park form when loading layers

Inspection Records   Coastal Structure Project Viewer   Condition Reports

Inspection I...	Date	Reach	From Station	To Station	Inspection Team
52	3/17/2008	Reach A	10+20	20+50	CESAM-OPJ
53	3/19/2008	Reach B	00001+10	00004+20	Team A
55	4/28/2008	Lower Channel	00+00	10+00	Red Team

General   Ratings   **Comments and Actions**   Related Files

Number	Suggested Action	Station Locations	Comments
1	Immediate Action	1+10 to	Check here

Structure Details Form -View 3

# Coastal Structures

# COSCA Software

**Structure Details**

[-] [ ] [X]

Active Structure: Perdido Pass Channel (west jetty)

☒ Keep form on top ☒ Auto park form when loading layers

Inspection Records Coastal Structure Project Viewer Condition Reports

Inspection I...	Date	Reach	From Station	To Station	Inspection Team
52	3/17/2008	Reach A	10+20	20+50	CESAM-OPJ
53	3/19/2008	Reach B	00001+10	00004+20	Team A
55	4/28/2008	Lower Channel	00+00	10+00	Red Team

General Ratings Comments and Actions Related Files

Available Files

File Name	Comments
CESAM-OPJGIS Status.JPG	

View File Save File

[-] [ ] [X]

Structure Details Form -View 4



# Coastal Structures

# COSCA Software

**Structure Details**

[-] [ ] [X]

Active Structure: Perdido Pass Channel (west jetty)

☒ Keep form on top ☒ Auto park form when loading layers

Inspection Records Coastal Structure Project Viewer Condition Reports

Units: Meters

Type	rock rubble	Crown Width	3	Min Entrance Width	183		
State	AL	Core Elevation	0	Side Slope (DEG)	33.7	Max Ebb Speed (Knots)	0
Coast	GME	Project Depth	4	Jetty Offset	Yes	Tide Prism (CM)	16538880
Year		Offset Difference	61	Total Cost to 1993	7803217	Ebb Delta Volume (CM)	0
Division	CESAM	Max Ebb Direction (DEG)	0	Max Flood Dir (DEG)	0	Ebb Shoal Volume (CM)	0
Project Width	46	Bay Surface Area (SM)	408432000	Number of Jetties	0	Date of Measurement	1969
Length	549	Crown Elevation	2	Mean Spring Tide Range (M)	0	Max Flood Speed (Knots)	0
Tide Gage Longitude (DEG)	0	Tide Gage Latitude (DEG)	0	X-Sectional Inlet Throat Area (SM)	652	Net Transport Rate Per Year (CM)	0
C Gage Longitude (DEG)	0	C Gage Latitude (DEG)	0				
Material Dredged 1993 (CM)	0	AVG Yearly Cost (1990-1993)	434468				

Structure Details Form -View 5

# Coastal Structures

# COSCA Software

**Structure Details**

Active Structure: Perdido Pass Channel (west jetty)

☒ Keep form on top ☒ Auto park form when loading layers

Inspection Records Coastal Structure Project Viewer **Condition Reports**

Available Reports

Report <input type="checkbox"/>	Inspection ID	Report Date	Created By	Title
<input checked="" type="checkbox"/> 29	52	4/28/2008	k5en9mdp	Test
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				

Structure Details Form -View 6

# Coastal Structures

# COSCA Software

**Structure Details**

Active Structure: Perdido Pass Channel (west jetty)

☒ Keep form on top ☒ Auto park form when loading layers

Inspection Records Coastal Structure Project Viewer Condition Reports

Inspection I...	Date	Reach	From Station	To Station	Inspection Team
52	3/17/2008	Reach A	10+20	20+50	CESAM-OPJ
53	3/19/2008	Reach B	00001+10	00004+20	Team A
55	4/28/2008	Lower Channel	00+00	10+00	Red Team

General Ratings Comments and Actions Related Files

Available Files

File Name	Comments

View File Save File

Structure Details Form -View 7



# Coastal Structures

# COSCA Software

**Add Inspection Record**

**General**

Project: Perdido Pass Channel Inspection Team: LRM Pices

Structure: Perdido Pass Channel (west jetty)

Reach: Lower End

Station From: 000+00 To: 010+00

Date: 6/15/2008

Time Begin: 10 : 24 AM Time End: 02 : 40 PM Wave Height: 2 Wave Action: non-overtopping

Inspection Type: boating Tide Stage (FT): 2 Tide Level: medium Weather: fair

**Comments**

	Comment Number	Suggested Action	Station Location(s)	Comments
▶	1	Watch	005+00	Damage noted.
*	2	Immediate Action	009+25	Armor damaged.
*				

Previous Next Cancel

Inspection Details Form -View 1

# Coastal Structures

# COSCA Software

**Add Inspection Record**

Ratings

**Structural Ratings for Coastal Structures**

	Rating 1-6	Damage Length	Comments	
<b>Breach:</b> <input checked="" type="checkbox"/> Settling Cap/Armor <input type="checkbox"/> Displaced Cap/Armor	Insignificant			Crest/Cap
<b>Core (or Underlayer) Exposure/Loss</b>	Insignificant			SeaSide/Hea
<b>Armor Loss:</b> <input checked="" type="checkbox"/> Settling <input type="checkbox"/> Bridging <input type="checkbox"/> Displaced	Insignificant			Channel/Harbor Sid
<b>Loss of Armor Contact/Armor Interlock</b>	Insignificant			
<b>Armor Quality Defects:</b> <input checked="" type="checkbox"/> Rounding <input type="checkbox"/> Cracking <input type="checkbox"/> Spalling <input type="checkbox"/> Fracturing	Insignificant			
<b>Slope Defects:</b> <input checked="" type="checkbox"/> Sliding <input type="checkbox"/> Steepening				

Previous    Next    Cancel

Inspection Details Form -View 2

# Coastal Structures

# COSCA Software

**Add Inspection Record**

Ratings

**Structural Ratings for Coastal Structures**

	Rating 1-6	Damage Length	Comments
<b>Breach:</b> <input checked="" type="checkbox"/> Settling Cap/Armor <input type="checkbox"/> Displaced Cap/Armor	Moderate	8	
<b>Core</b>			
<b>Armor</b>			
<input type="checkbox"/> Settling			
<b>Loss</b>			
<b>Armor</b>			
<input type="checkbox"/> Rounding <input type="checkbox"/> Cracking <input type="checkbox"/> Spalling <input type="checkbox"/> Fracturing	Insignificant		
<b>Slope Defects:</b> <input type="checkbox"/> Sliding <input type="checkbox"/> Steepening			

Previous   Next   Cancel

Vertical Labels: Crest/Cap, SeaSide/Hea, Channel/Harbor Sid

**Modal Window:**

Number	Select	Comment
1	<input type="checkbox"/>	Damage noted.
2	<input checked="" type="checkbox"/>	Armor damaged.

Inspection Details Form -View 3

# Coastal Structures

# COSCA Software

**Add Inspection Record**

Comments

Foundation Fault Suspected In Caused By Station

1 Item Armour Displacement Scour 006+50

Item

WARNING SIGNS/GATES

AUXILIARY STRUCTURES (walkways, stairs, navigation lights, etc.)

AMOUNT OF DEBRIS IN ARMOR (rubble, trash, logs, etc.)

File Name	Comment

Comment on File

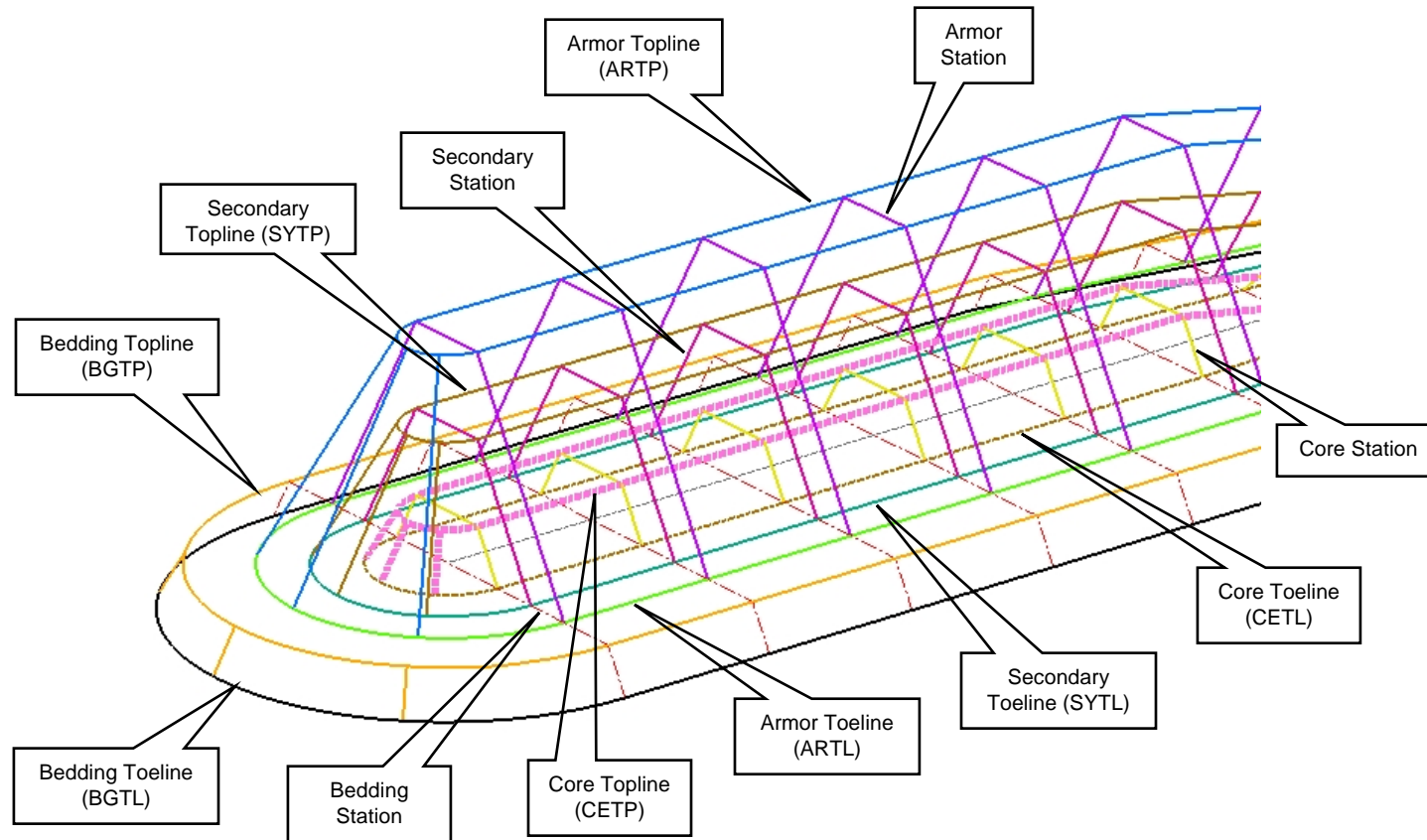
Upload File(s)

Previous Next Save Cancel

Inspection Details Form -View 4

# Coastal Structures

# COSCA Software



Jetty Model Details Form -View 1

# Coastal Structures

# COSCA Software

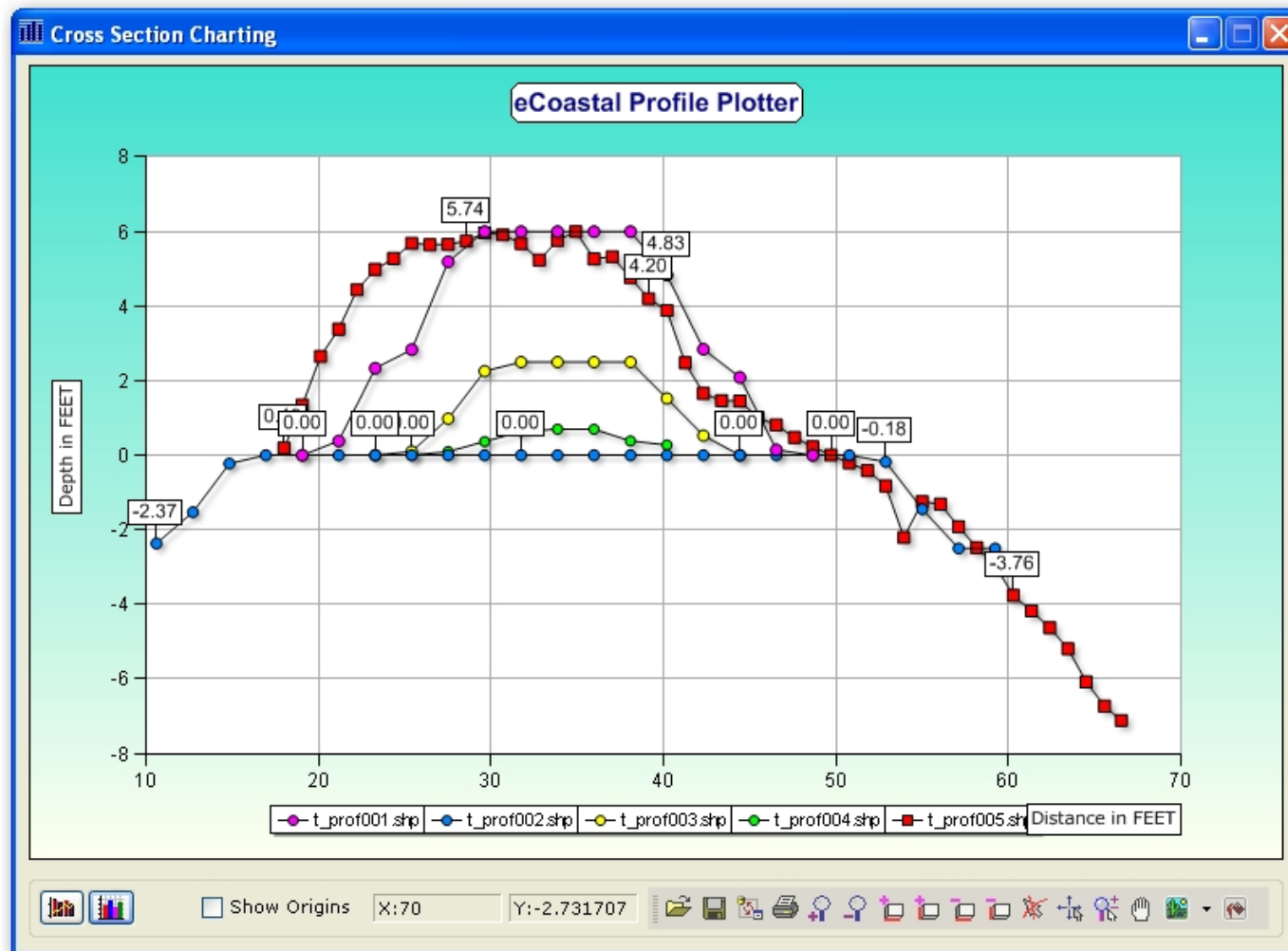


Analysis Details - Profile Cut - View 1



# Coastal Structures

# COSCA Software



Analysis Details - Profile Cut - View 2


# Coastal Structures

# COSCA Software

**Volume Change Analysis**

[-] [ ] [X]

[-] Apalachicola Bay  
[-] Choctawhatchee Bay  
[-] Dog Keys Pass  
[-] East Pass  
[-] East Pass Channel  
    [-] East Pass Channel (west jetty)  
    [-] East Pass Channel (west sand dike)  
    [-] East Pass Channel (east jetty)  
    [-] East Pass Channel (east sand dike)  
[-] East Point  
[-] Horn Island Pass  
[-] Indian Pass  
[-] Mobile Bay  
[-] Panama City Harbor  
[-] Pensacola Bay  
[-] Perdido Pass Channel  
[-] Petit Bois Pass  
[-] Ship Island Pass  
[-] St. Andrews Pass  
[-] St. George Pass  
[-] Two Mile Channel


 ☒ Keep form on top

**Analysis Density**

☐ Densify Station Lines      Point Distance: 1.0

☒ Distance    ☐ Quantity    ☐ Project output to WGS84

**Analysis Tools**

 Structure Component: Armor

Start Station: 0036+00    End Station: 0040+00    Z Unit: Foot

Survey Layer: East Pass Hydro-L    Design Layer: S0215 Armor Grid

**Volume Change Report Information**

Report Title: East Pass      Created By: k5en9mdp

Active Structure: East Pass Channel (west jetty)

Working Projection: GCS\_WGS\_1984

**Repair Costs**

Material (\$/CY): 2.50    Construction Easement: 0 (FT)

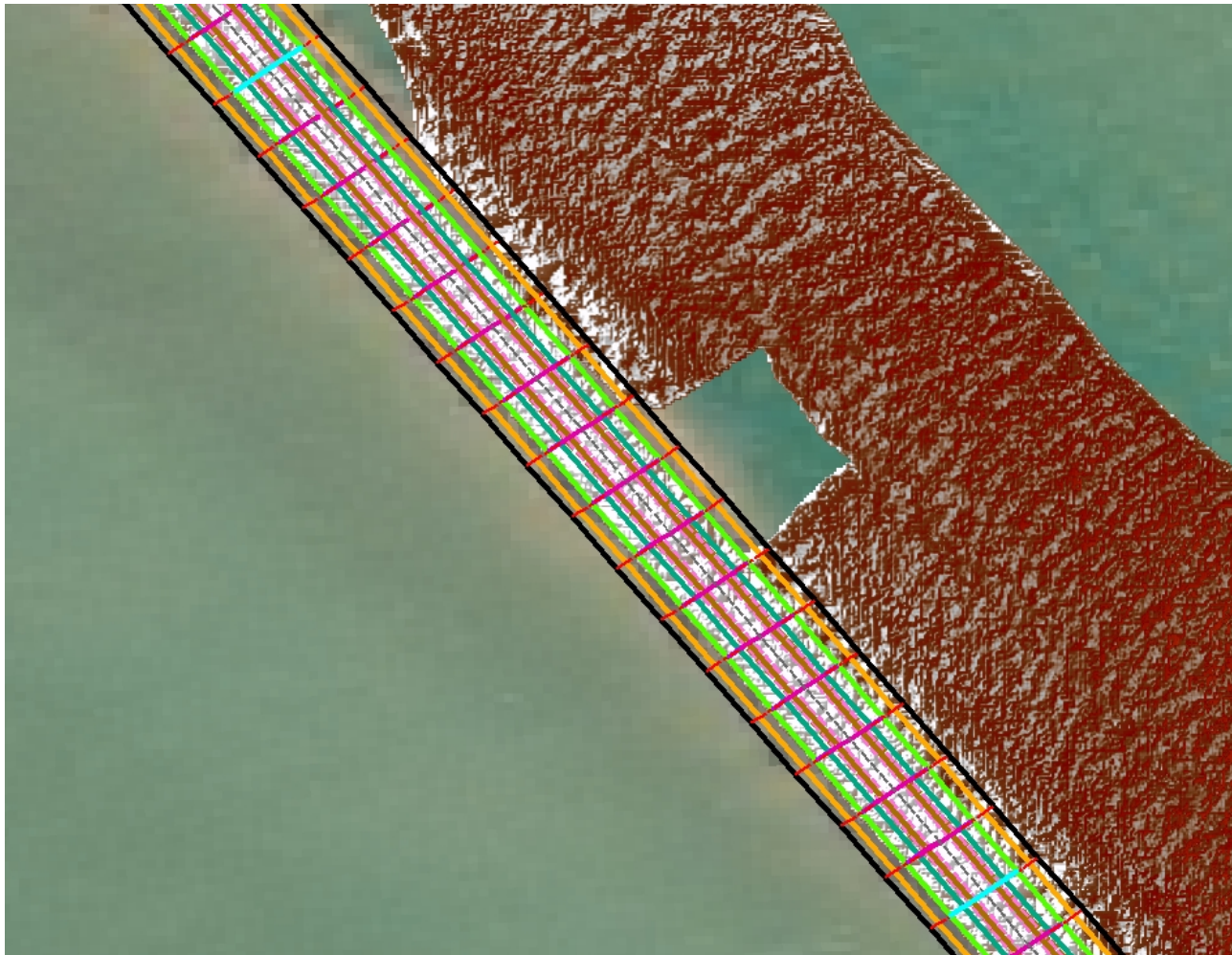
Remarks: 1-15 stones

Material: rock rubble    ☐ Auto park form when loading layers

Analysis Form - View 1

# Coastal Structures

# COSCA Software



Survey Data - West Jetty East Pass - View 1

# Coastal Structures

# COSCA Software

**Volume Change Analysis**

Apalachicola Bay  
Choctawhatchee Bay  
Dog Keys Pass  
East Pass  
East Pass Channel  
    East Pass Channel (west jetty)  
    East Pass Channel (west sand dike)  
    East Pass Channel (east jetty)  
    East Pass Channel (east sand dike)  
East Point  
Horn Island Pass  
Indian Pass  
Mobile Bay  
Panama City Harbor  
Pensacola Bay  
Perdido Pass Channel  
Petit Bois Pass  
Ship Island Pass  
St. Andrews Pass  
St. George Pass  
Two Mile Channel

☒ Keep form on top

**Analysis Density**  
☐ Densify Station Lines      Point Distance: 1.0  
☒ Distance    ☐ Quantity    ☐ Project output to WGS84

**Analysis Tools**  
Structure Component: Secondary  
Start Station: 0036+00    End Station: 0040+00    Z Unit: Foot  
Survey Layer: East Pass Hydro-L    Design Layer: S0215 Armor Grid

**Volume Change Report Information**  
Report Title: East Pass    Created By: k5en9mdp  
Active Structure: East Pass Channel (west jetty)  
Working Projection: GCS\_WGS\_1984

**Repair Costs**  
Material (\$/CY): 2.50    Construction Easement: 0 (FT)  
Remarks: 1-15 stones  
Material: rock rubble    ☐ Auto park form when loading layers

Clear Grid    Insert Map

**East Pass Channel (west jetty)**

Component	Start Station	End Station	Cost (\$/CY)	Total Cost	Erosion (CY)	Accretion (CY)
<b>Component : Armor - 1 item(s)</b>						
Armor	0036+00	0040+00	\$2.50	\$146.79	73	253
Material: rock rubble    Remarks: 1-15 stones						
<b>Component : Secondary - 1 item(s)</b>						
Secondary	0036+00	0040+00	\$2.50	\$157.74	79	93
Material: rock rubble    Remarks: 1-15 stones						

2 rows

Analysis Form - View 2